LOGINID: SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International NEWS Web Page URLs for STN Seminar Schedule - N. America NEWS "Ask CAS" for self-help around the clock NEWS 3 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY NEWS 4 OCT 03 MATHDI removed from STN NEWS 5 OCT 04 CA/CAplus-Canadian Intellectual Property Office (CIPO) added to core patent offices New CAS Information Use Policies Effective October 17, 2005 NEWS 6 OCT 13 NEWS 7 OCT 17 STN(R) AnaVist(TM), Version 1.01, allows the export/download of CAplus documents for use in third-party analysis and visualization tools NEWS 8 OCT 27 Free KWIC format extended in full-text databases NEWS 9 OCT 27 DIOGENES content streamlined NEWS 10 OCT 27 EPFULL enhanced with additional content NEWS 11 NOV 14 CA/CAplus - Expanded coverage of German academic research NEWS 12 NOV 30 REGISTRY/ZREGISTRY on STN(R) enhanced with experimental spectral property data NEWS 13 DEC 05 CASREACT(R) - Over 10 million reactions available NEWS 14 DEC 14 2006 MeSH terms loaded in MEDLINE/LMEDLINE NEWS 15 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER NEWS 16 DEC 14 CA/CAplus to be enhanced with updated IPC codes NEWS 17 DEC 16 MARPATprev will be removed from STN on December 31, 2005 NEWS 18 DEC 21 IPC search and display fields enhanced in CA/CAplus with the IPC reform NEWS 19 DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/USPAT2 NEWS EXPRESS JANUARY 03 CURRENT VERSION FOR WINDOWS IS V8.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT http://download.cas.org/express/v8.0-Discover/ SINCE APPROXIMATELY 20:00 COLUMBUS TIME DECEMBER 29, NEWS DCOST SOME ONLINE COST DISPLAYS HAVE BEEN SHOWING COSTS IN 2006 PRICES FOR STN COLUMBUS FILES. THIS HAS BEEN CORRECTED. PLEASE BE ASSURED THAT YOU WILL BE BILLED ACCORDING TO 2005 PRICES UNTIL JAN 1. PLEASE CONTACT YOUR LOCAL HELP DESK IF YOU HAVE ANY QUESTIONS. APOLOGIZE FOR THE ERROR. NEWS HOURS STN Operating Hours Plus Help Desk Availability NEWS INTER General Internet Information NEWS LOGIN Welcome Banner and News Items Direct Dial and Telecommunication Network Access to STN NEWS PHONE CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 16:03:45 ON 03 JAN 2006

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST ENTRY SESSION 0.21 0.21

FILE 'CAPLUS' ENTERED AT 16:04:01 ON 03 JAN 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

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Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/infopolicy.html

=> s us 20030086933/pn

L1 1 US 20030086933/PN (US2003086933/PN)

=> s rn

20124 RN

634 RNS

L2 20735 RN

(RN OR RNS)

=> s CB () 1954

12173 CB

3804 CBS

15668 CB

(CB OR CBS)

8226 1954

L3 93 CB (W) 1954

=> s 13 and 12

L4 0 L3 AND L2

=> file reg

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

8.93

8.72

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 16:05:24 ON 03 JAN 2006
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STRUCTURE FILE UPDATES: 2 JAN 2006 HIGHEST RN 870976-29-7 DICTIONARY FILE UPDATES: 2 JAN 2006 HIGHEST RN 870976-29-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> s .12

2889 RN 15 RNS

L5 2902 RN

(RN OR RNS)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 5.20 14.13

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 16:06:06 ON 03 JAN 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 3 Jan 2006 VOL 144 ISS 2 FILE LAST UPDATED: 2 Jan 2006 (20060102/ED)

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=> d his

(FILE 'HOME' ENTERED AT 16:03:45 ON 03 JAN 2006)

FILE 'CAPLUS' ENTERED AT 16:04:01 ON 03 JAN 2006

L1 1 S US 20030086933/PN

L2 20735 S RN

L3 93 S CB () 1954 L4 0 S L3 AND L2

FILE 'REGISTRY' ENTERED AT 16:05:24 ON 03 JAN 2006 L5 2902 S L2

FILE 'CAPLUS' ENTERED AT 16:06:06 ON 03 JAN 2006

=> sel rn l1 E1 THROUGH E45 ASSIGNED

=> file reg
COST IN U.S. DOLLARS

FULL ESTIMATED COST ENTRY SESSION 0.54 14.67

SINCE FILE

TOTAL.

FILE 'REGISTRY' ENTERED AT 16:06:28 ON 03 JAN 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 2 JAN 2006 HIGHEST RN 870976-29-7 DICTIONARY FILE UPDATES: 2 JAN 2006 HIGHEST RN 870976-29-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

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1 106-94-5/BI
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1 106047-77-2/BI
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1 109942-74-7/BI
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1 1120-71-4/BI
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1 114554-11-9/BI
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1 115503-79-2/BI
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1 119643-82-2/BI
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1 126298-92-8/BI
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1 141-76-4/BI
    (141-76-4/RN)
1 144-48-9/BI
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1 64881-21-6/BI

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               OR 106047-77-2/BI OR 107-08-4/BI OR 109942-74-7/BI OR 1120-71-4/
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               97009-81-9/BI OR 98-92-0/BI OR 99362-74-0/BI)
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L6
    ANSWER 1 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
     667919-86-0 REGISTRY
RN
ED
     Entered STN: 26 Mar 2004
CN
     Dehydrogenase, reduced nicotinamide riboside (quinone) (9CI) (CA INDEX
     NAME)
OTHER NAMES:
CN
     Dihydronicotinamide riboside quinone oxidoreductase 2
CN
     Dihydronicotinamide riboside quinone reductase 2
CN
     Dihydronicotinamide riboside: quinone oxidoreductase
CN
    NQO2 oxidoreductase
CN
     NRH:quinone oxidoreductase
CN
     Reduced nicotinamide riboside (quinone) dehydrogenase
MF
     Unspecified
CI
    MAN
SR
     CA
LC
     STN Files:
                  CA, CAPLUS, TOXCENTER, USPATFULL
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
              35 REFERENCES IN FILE CA (1907 TO DATE)
              35 REFERENCES IN FILE CAPLUS (1907 TO DATE)
L6
    ANSWER 2 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN
     218443-93-7 REGISTRY
```

ED

Entered STN: 29 Jan 1999

CN Pyridinium, 3-(aminocarbonyl)-1-(2-phenylethyl)-, iodide (9CI) (CA INDEX NAME)

MF C14 H15 N2 O . I

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

(761385-40-4)

CRN

• I-

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 3 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 218443-92-6 REGISTRY

ED Entered STN: 29 Jan 1999

CN Pyridinium, 3-(aminocarbonyl)-1-(2-carboxyethyl)-, iodide (9CI) (CA INDEX NAME)

MF C9 H11 N2 O3 . I

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CRN (717820-87-6)

$$\begin{array}{c} \circ \\ \parallel \\ \text{H}_2\text{N} - \text{C} \\ \downarrow \\ \uparrow \\ \uparrow \\ \end{array} \text{CH}_2 - \text{CH}_2 - \text{CO}_2\text{H}$$

• I-

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 4 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN **218443-91-5** REGISTRY

ED Entered STN: 29 Jan 1999

CN 3-Pyridinecarboxamide, 1,4-dihydro-1-(3-hydroxypropyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C9 H14 N2 O2

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

$$H_2N-C$$
 (CH₂)₃-OH

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 5 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 218443-90-4 REGISTRY

ED Entered STN: 29 Jan 1999

CN Pyridinium, 3-(aminocarbonyl)-1-(1-methylethyl)-, bromide (9CI) (CA INDEX NAME)

MF C9 H13 N2 O . Br

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CRN (745779-44-6)

• Br-

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 6 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 218443-88-0 REGISTRY

ED Entered STN: 29 Jan 1999

CN Pyridinium, 3-(aminocarbonyl)-1-(2-amino-2-oxoethyl)-, iodide (9CI) (CA INDEX NAME)

MF C8 H10 N3 O2 . I

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CRN (66822-26-2)

$$\begin{array}{c|c} O & O & O \\ \parallel & \parallel & \parallel \\ H_2N-C & \parallel & \parallel \\ & N & CH_2-C-NH_2 \end{array}$$

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 7 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 126298-92-8 REGISTRY

ED Entered STN: 06 Apr 1990

CN Pyridinium, 3-(aminocarbonyl)-1-(3-hydroxypropyl)-, bromide (9CI) (CA INDEX NAME)

MF C9 H13 N2 O2 . Br

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CRN (83643-85-0)

● Br-

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 8 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 119643-82-2 REGISTRY

ED Entered STN: 17 Mar 1989

CN Benzamide, 5-(1-aziridinyl)-4-(hydroxyamino)-2-nitro- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C9 H10 N4 O4

SR CA

LC STN Files: CA, CANCERLIT, CAPLUS, MEDLINE, TOXCENTER, USPATFULL

$$\begin{array}{c|c}
 & O \\
 & O \\
 & C - NH_2 \\
 & O \\
 & C - NH_2 \\
 & O \\$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

12 REFERENCES IN FILE CA (1907 TO DATE)

12 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 9 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 115503-79-2 REGISTRY

ED Entered STN: 30 Jul 1988

CN 3-Pyridinecarboxamide, 1,4-dihydro-1-(1-methylethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD

MF C9 H14 N2 O

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, USPATFULL (*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)

5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 10 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 114554-11-9 REGISTRY

ED Entered STN: 21 May 1988

CN 1(4H)-Pyridinepropanesulfonic acid, 3-(aminocarbonyl)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

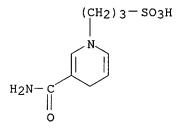
CN 1(4H)-Pyridinepropanesulfonic acid, 3-carbamoyl- (6CI)

FS 3D CONCORD

MF C9 H14 N2 O4 S

SR CAOLD

LC STN Files: CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 11 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 109942-74-7 REGISTRY

ED Entered STN: 22 Aug 1987

CN Pyridinium, 3-(aminocarbonyl)-1-(1-methylethyl)-, iodide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3-Carbamoyl-1-isopropylpyridinium iodide (6CI)

MF C9 H13 N2 O . I

SR CAOLD

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL (*File contains numerically searchable property data) (745779 - 44 - 6)CRN

• I-

L6

5 REFERENCES IN FILE CA (1907 TO DATE) 5 REFERENCES IN FILE CAPLUS (1907 TO DATE) 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967) ANSWER 12 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

106047-77-2 REGISTRY RNEntered STN: 10 Jan 1987 ED Pyridinium, 3-(aminocarbonyl)-1-(2-hydroxyethyl)-, iodide (9CI) (CA INDEX CN NAME) MF C8 H11 N2 O2 . I SR CA STN Files: CA, CAPLUS, TOXCENTER, USPATFULL LC CRN (66822-21-7)

$$H_2N-C$$

) I-

4 REFERENCES IN FILE CAPLUS (1907 TO DATE) ANSWER 13 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN 99362-74-0 REGISTRY Entered STN: 07 Dec 1985 1(4H)-Pyridinepropanoic acid, 3-(aminocarbonyl)- (9CI) (CA INDEX NAME)

4 REFERENCES IN FILE CA (1907 TO DATE)

OTHER CA INDEX NAMES: CN 1(4H)-Pyridinepropionic acid, 3-carbamoyl- (6CI)

FS 3D CONCORD

C9 H12 N2 O3 MF

SR CAOLD

L6 RN

ED

CN

LC STN Files: CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 14 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 97009-81-9 REGISTRY

ED Entered STN: 01 Jul 1985

CN Pyridinium, 3-(aminocarbonyl)-1-ethyl-, iodide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3-Carbamoyl-1-ethylpyridinium iodide (6CI)

CN Pyridinium, 3-carbamyl-1-ethyl-, iodide (4CI)

MF C8 H11 N2 O . I

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

CRN (71413-64-4)

• I-

12 REFERENCES IN FILE CA (1907 TO DATE)

12 REFERENCES IN FILE CAPLUS (1907 TO DATE)

3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 15 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 89080-16-0 REGISTRY

ED Entered STN: 16 Nov 1984

CN 3-Pyridinecarboxamide, 1,4-dihydro-1-(2-phenylethyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C14 H16 N2 O

LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, USPATFULL (*File contains numerically searchable property data)

- 4 REFERENCES IN FILE CA (1907 TO DATE)
- 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L6 ANSWER 16 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
- RN **72306-81-1** REGISTRY
- ED Entered STN: 16 Nov 1984
- CN Pyridinium, 3-(aminocarbonyl)-1-(phenylmethyl)-, iodide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

- CN 1-Benzyl-3-carbamoylpyridinium iodide (6CI, 7CI)
- MF C13 H13 N2 O . I
- LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, TOXCENTER, USPATFULL
 - (*File contains numerically searchable property data)
- CRN (16183-83-8)

• I-

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 5 REFERENCES IN FILE CA (1907 TO DATE)
- 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
- L6 ANSWER 17 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
- RN 64881-21-6 REGISTRY
- ED Entered STN: 16 Nov 1984
- CN 1(4H)-Pyridineacetamide, 3-(aminocarbonyl)- (9CI) (CA INDEX NAME) OTHER NAMES:
- CN 1-Carbamoylmethyl-1,4-dihydronicotinamide
- CN Caricotamide
- CN EP 0152R
- FS 3D CONCORD
- MF C8 H11 N3 O2
- LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1907 TO DATE)

9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 18 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 58880-44-7 REGISTRY

ED Entered STN: 16 Nov 1984

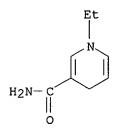
CN 3-Pyridinecarboxamide, 1-ethyl-1,4-dihydro- (9CI) (CA INDEX NAME) OTHER NAMES:

CN N-Ethyl-1, 4-dihydronicotinamide

FS 3D CONCORD

MF C8 H12 N2 O

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8 REFERENCES IN FILE CA (1907 TO DATE)

8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 19 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN **52047-79-7** REGISTRY

ED Entered STN: 16 Nov 1984

CN Pyridinium, 3-(aminocarbonyl)-1-propyl-, bromide (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES:

CN Pyridinium, 3-carbamoyl-1-propyl-, bromide (6CI)

CN 3-Carbamoyl-1-propylpyridinium bromide

MF C9 H13 N2 O . Br

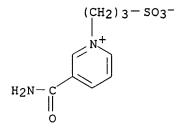
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMCATS, TOXCENTER, USPATFULL (*File contains numerically searchable property data)

CRN (13309-33-6)

OTHER NAMES:

Br-

15 REFERENCES IN FILE CA (1907 TO DATE) 15 REFERENCES IN FILE CAPLUS (1907 TO DATE) 4 REFERENCES IN FILE CAOLD (PRIOR TO 1967) L6 ANSWER 20 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN 51652-08-5 REGISTRY RN ED Entered STN: 16 Nov 1984 Pyridinium, 3-(aminocarbonyl)-1-(3-sulfopropyl)-, inner salt (9CI) CN INDEX NAME) OTHER CA INDEX NAMES: 3-Carbamoyl-1-(3-sulfopropyl)pyridinium hydroxide, inner salt (6CI) CN CN Pyridinium, 3-(aminocarbonyl)-1-(3-sulfopropyl)-, hydroxide, inner salt FS 3D CONCORD MF C9 H12 N2 O4 S LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMLIST, MSDS-OHS, TOXCENTER, USPATFULL (*File contains numerically searchable property data) Other Sources: EINECS** (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 11 REFERENCES IN FILE CA (1907 TO DATE)
- 11 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
- L6 ANSWER 21 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
- RN 21919-05-1 REGISTRY
- ED Entered STN: 16 Nov 1984
- CN Benzamide, 5-(1-aziridinyl)-2,4-dinitro-(8CI, 9CI) (CA INDEX NAME) OTHER NAMES:
- CN 2,4-Dinitro-5-ethyleneiminobenzamide
- CN 2,4-Dinitroethyleneiminobenzamide
- CN 5-(1-Aziridinyl)-2,4-dinitrobenzamide
- CN 5-Aziridino-2,4-dinitrobenzamide

CN 5-Aziridinyl-2,4-dinitrobenzamide

CN CB 1954

CN NSC 115829

CN Tretazicar

MF C9 H8 N4 O5

LC STN Files: ADISNEWS, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS, CIN, DDFU, DRUGU, EMBASE, IMSDRUGNEWS, IMSRESEARCH, MEDLINE, PROMT, PROUSDDR, RTECS*, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

168 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

169 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 22 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 19132-12-8 REGISTRY

ED Entered STN: 16 Nov 1984

CN 3-Pyridinecarboxamide, 1,4-dihydro-1- β -D-ribofuranosyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Nicotinamide, 1,4-dihydro-1- β -D-ribofuranosyl- (6CI, 7CI, 8CI) OTHER NAMES:

CN β-Reduced nicotinamide ribonucleoside

CN Reduced nicotinamide riboside

FS STEREOSEARCH

MF C11 H16 N2 O5

CI COM

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL (*File contains numerically searchable property data)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

16 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

16 REFERENCES IN FILE CAPLUS (1907 TO DATE)

4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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ANSWER 23 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
1.6
RN
     17750-24-2 REGISTRY
ED
     Entered STN: 16 Nov 1984
CN
     3-Pyridinecarboxamide, 1,4-dihydro-1-propyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
     Nicotinamide, 1,4-dihydro-1-propyl- (6CI, 7CI, 8CI)
OTHER NAMES:
     1,4-Dihydro-N1-propylnicotinamide
CN
CN
     1-n-Propyl-1, 4-dihydronicotinamide
     1-Propyl-1, 4-dihydronicotinamide
CN
CN
     N-Propyldihydronicotinamide
CN
     N1-(n-Propyl)-1,4-dihydronicotinamide
FS
     3D CONCORD
MF
     C9 H14 N2 O
LC
     STN Files:
                  BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, HODOC*,
       TOXCENTER, USPATFULL
         (*File contains numerically searchable property data)
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
              95 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
              95 REFERENCES IN FILE CAPLUS (1907 TO DATE)
              15 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
     ANSWER 24 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
Lб
     17750-23-1 REGISTRY
RN
     Entered STN: 16 Nov 1984
ED
     3-Pyridinecarboxamide, 1,4-dihydro-1-methyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
    Nicotinamide, 1,4-dihydro-1-methyl- (6CI, 8CI)
OTHER NAMES:
     1,4-Dihydro-1-methylnicotinamide
CN
CN
     1,4-Dihydro-N-methylnicotinamide
CN
     1-Methyl-1, 4-dihydronicotinamide
CN
     3-Carbamoyl-1, 4-dihydro-1-methylpyridine
CN
     N-Methyl-1, 4-dihydronicotinamide
FS
     3D CONCORD
MF
     C7 H10 N2 O
CI
     COM
                  BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,
LC
     STN Files:
       CHEMCATS, IFICDB, IFIPAT, IFIUDB, MEDLINE, TOXCENTER, USPAT2, USPATFULL
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(*File contains numerically searchable property data)

CN

CN

CN

CN

Aromatic nitroreductase

Nitrobenzene reductase

Dinitropyrene nitroreductase

Nitrobenzene nitroreductase

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT 107 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA 107 REFERENCES IN FILE CAPLUS (1907 TO DATE) 3 REFERENCES IN FILE CAOLD (PRIOR TO 1967) L6 ANSWER 25 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN RN 17376-04-4 REGISTRY Entered STN: 16 Nov 1984 ED Benzene, (2-iodoethyl) - (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME) CN OTHER NAMES: CN (2-Iodoethyl)benzene CN β-Phenethyl iodide CN β-Phenylethyl iodide 1-Iodo-2-phenylethane CN CN 2-Phenylethyl iodide Phenethyl iodide CN FS 3D CONCORD MF C8 H9 I CI COM BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, LC STN Files: CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*, GMELIN*, HODOC*, SPECINFO, TOXCENTER, USPAT2, USPATFULL (*File contains numerically searchable property data) NDSL**, TSCA** Other Sources: (**Enter CHEMLIST File for up-to-date regulatory information) ICH2-CH2-Ph **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT** 268 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA 268 REFERENCES IN FILE CAPLUS (1907 TO DATE) 15 REFERENCES IN FILE CAOLD (PRIOR TO 1967) L6 ANSWER 26 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN RN 9037-41-6 REGISTRY Entered STN: 16 Nov 1984 ED CN Reductase, nitro- (9CI) (CA INDEX NAME) OTHER NAMES: CN 2,4,6-Trinitrotoluene nitroreductase CN 3-Nitrophenol reductase CN 4-Nitrobiphenyl reductase

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CN Nitrobenzoic acid reductase
```

CN Nitrophenol reductase

CN Nitroreductase

CN Nitroreductase (NADH)

CN PETN reductase

CN TNT nitroreductase

MF Unspecified

CI MAN

LC STN Files: ADISNEWS, AGRICOLA, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CEN, CIN, EMBASE, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

663 REFERENCES IN FILE CA (1907 TO DATE)

11 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

666 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 27 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN **7145-37-1** REGISTRY

ED Entered STN: 16 Nov 1984

CN 3-Pyridinecarboxamide, 1,4-dihydro-1-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Nicotinamide, 1,4-dihydro-1-(2-hydroxyethyl)- (7CI, 8CI)

OTHER NAMES:

CN NSC 74259

FS 3D CONCORD

MF C8 H12 N2 O2

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL (*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)

6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 28 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 6456-44-6 REGISTRY

ED Entered STN: 16 Nov 1984

CN Pyridinium, 3-(aminocarbonyl)-1-methyl-, iodide (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES:

CN 3-Carbamoyl-1-methylpyridinium iodide (6CI, 7CI)

CN Pyridinium, 3-carbamoyl-1-methyl-, iodide (8CI)

CN Pyridinium, 3-carbamyl-1-methyl-, iodide (4CI)

OTHER NAMES:

CN 1-Methylnicotinamide iodide

CN Nicotinamide methiodide

MF C7 H9 N2 O . I

SR CAS EARLY REGISTRATIONS

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, GMELIN*, RTECS*, TOXCENTER, USPAT2, USPATFULL (*File contains numerically searchable property data)
Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)
CRN (3106-60-3)

• I-

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

104 REFERENCES IN FILE CA (1907 TO DATE) 104 REFERENCES IN FILE CAPLUS (1907 TO DATE)

19 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 29 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 5463-59-2 REGISTRY

ED Entered STN: 16 Nov 1984

CN Pyridinium, 3-(aminocarbonyl)-1-propyl-, iodide (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES:

CN 3-Carbamoyl-1-propylpyridinium iodide (6CI, 7CI)

CN Pyridinium, 3-carbamoyl-1-propyl-, iodide (8CI)

MF C9 H13 N2 O . I

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, HODOC*, TOXCENTER, USPATFULL (*File contains numerically searchable property data)
CRN (13309-33-6)

• I-

18 REFERENCES IN FILE CA (1907 TO DATE)

18 REFERENCES IN FILE CAPLUS (1907 TO DATE)

4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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ANSWER 30 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
L6
RN
     4229-56-5 REGISTRY
ΕD
     Entered STN: 16 Nov 1984
CN
     3-Pyridinecarboxamide, 1,4-dihydro-1-(5-0-phosphono-\beta-D-
     ribofuranosyl) - (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN
     Nicotinamide, 1,4-dihydro-1-β-D-ribofuranosyl-, 5'-(dihydrogen
     phosphate) (8CI)
CN
     Nicotinamide, 1,4-dihydro-1-\beta-D-ribofuranosyl-, 5'-phosphate (7CI)
OTHER NAMES:
CN
     \beta-NMNH
CN
     1,4-Dihydronicotinamide mononucleotide
CN
     1,4-Dihydronicotinamide ribonucleotide
CN
     Nicotinamide ribonucleotide, reduced
CN
     NMNH
     NMNH2
CN
     Reduced nicotinamide mononucleotide
CN
     Reduced nicotinamide ribonucleotide
CN
FS
     STEREOSEARCH
MF
     C11 H17 N2 O8 P
CI
     COM
LC
     STN Files:
                  AGRICOLA, BEILSTEIN*, CA, CAOLD, CAPLUS, CEN, TOXCENTER,
       USPATFULL
         (*File contains numerically searchable property data)
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Absolute stereochemistry.

MF

C3 H6 O3 S

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
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77 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
              77 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
L6
     ANSWER 31 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN
     1120-71-4 REGISTRY
ED
     Entered STN: 16 Nov 1984
     1,2-Oxathiolane, 2,2-dioxide (8CI, 9CI)
CN
                                               (CA INDEX NAME)
OTHER CA INDEX NAMES:
    1-Propanesulfonic acid, 3-hydroxy-, γ-sultone (6CI)
CN
OTHER NAMES:
    \gamma-Propane sultone
CN
CN
     1,3-Propane sultone
CN
     1,3-Trimethylene sultone
CN
     3-Hydroxy-1-propanesulfonic acid \gamma-sultone
CN
     3-Hydroxy-1-propanesulfonic acid sultone
     NSC 42386
CN
CN
     Propane sultone
CN
     Propyl sultone
     3D CONCORD
FS
```

```
CI
     COM
LC
     STN Files:
                  AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
       BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS,
       CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, EMBASE,
       ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB,
       MEDLINE, MSDS-OHS, NIOSHTIC, PROMT, PS, RTECS*, SPECINFO, TOXCENTER,
       ULIDAT, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
            1720 REFERENCES IN FILE CA (1907 TO DATE)
             374 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
            1723 REFERENCES IN FILE CAPLUS (1907 TO DATE)
              31 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
     ANSWER 32 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
Lб
RN
     952-92-1 REGISTRY
ED
     Entered STN: 16 Nov 1984
     3-Pyridinecarboxamide, 1,4-dihydro-1-(phenylmethyl)- (9CI) (CA INDEX
CN
     NAME)
OTHER CA INDEX NAMES:
     Nicotinamide, 1-benzyl-1, 4-dihydro- (6CI, 7CI, 8CI)
OTHER NAMES:
     1,4-Dihydro-1-(phenylmethyl)-3-pyridinecarboxamide
CN
CN
     1,4-Dihydro-N-benzylnicotinamide
CN
     1-Benzyl-1, 4-dihydronicotinamide
CN
     1-Benzyl-3-carbamido-1,4-dihydropyridine
CN
     1-Benzyl-3-carbamoyl-1,4-dihydropyridine
CN
     BNAH
     N-Benzyl-1, 4-dihydronicotinamide
CN
CN
     N-Benzyl-3-carbamoyl-1, 4-dihydropyridine
CN
     N-Benzyldihydronicotinamide
CN
     NSC 26899
FS
     3D CONCORD
DR
     174307-50-7, 84062-23-7
MF
     C13 H14 N2 O
CI
     COM
                AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,
LC
     STN Files:
       CHEMCATS, CHEMINFORMRX, CSCHEM, GMELIN*, IFICDB, IFIPAT, IFIUDB,
       MEDLINE, PIRA, PROMT, TOXCENTER, USPATFULL
         (*File contains numerically searchable property data)
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0
H<sub>2</sub>N-C
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LC

STN Files:

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
             582 REFERENCES IN FILE CA (1907 TO DATE)
              10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
             582 REFERENCES IN FILE CAPLUS (1907 TO DATE)
              31 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
L6
     ANSWER 33 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN
     627-18-9 REGISTRY
ED
     Entered STN: 16 Nov 1984
     1-Propanol, 3-bromo- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN
     1-Bromo-3-hydroxypropane
CN
     1-Bromo-3-propanol
CN
     3-Bromo-1-propanol
CN
     3-Bromopropyl alcohol
     3-Hydroxypropyl bromide
CN
     Trimethylene bromohydrin
CN
FS
     3D CONCORD
MF
     C3 H7 Br O
CI
     COM
LC
     STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
       CHEMINFORMRX, CHEMLIST, CSCHEM, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT,
       IFIUDB, NIOSHTIC, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2,
       USPATFULL
         (*File contains numerically searchable property data)
     Other Sources: EINECS**, NDSL**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
Br-CH_2-CH_2-CH_2-OH
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
            1358 REFERENCES IN FILE CA (1907 TO DATE)
              17 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
            1358 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               8 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
     ANSWER 34 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
L6
     624-76-0 REGISTRY
RN
     Entered STN: 16 Nov 1984
CN
     Ethanol, 2-iodo- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN
     2-Iodoethanol
CN
     Ethylene iodohydrin
CN
     Iodoethanol
CN
     NSC 85227
FS
     3D CONCORD
     C2 H5 I O
MF
CI
     COM
```

BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,

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CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*, HODOC*, IFICDB, IFIPAT,
       IFIUDB, NIOSHTIC, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2,
      USPATFULL
         (*File contains numerically searchable property data)
    Other Sources: DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
I-CH_2-CH_2-OH
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
             457 REFERENCES IN FILE CA (1907 TO DATE)
               6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
             457 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
    ANSWER 35 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
    144-48-9 REGISTRY
    Entered STN: 16 Nov 1984
    Acetamide, 2-iodo- (8CI, 9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
    Acetamide, iodo- (6CI)
OTHER NAMES:
    \alpha-Iodoacetamide
    2-Iodoacetamide
    Iodoacetamide
    Monoiodoacetamide
    NSC 9581
    Surauto
    3D CONCORD
    C2 H4 I N O
    COM
                AGRICOLA, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO,
     STN Files:
       CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX,
       CHEMLIST, CSCHEM, DDFU, DRUGU, EMBASE, HODOC*, IFICDB, IFIPAT, IFIUDB,
       IPA, MEDLINE, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, RTECS*,
       SCISEARCH, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL, VETU
         (*File contains numerically searchable property data)
    Other Sources: DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
    0
H_2N-C-CH_2-I
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
            1630 REFERENCES IN FILE CA (1907 TO DATE)
              45 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
            1631 REFERENCES IN FILE CAPLUS (1907 TO DATE)
              80 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
    ANSWER 36 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
    141-76-4 REGISTRY
    Entered STN: 16 Nov 1984
    Propanoic acid, 3-iodo- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
```

RN

ED

CN

CN

CN

CN CN

CN

CN

CN

FS MF

CI

LC

L6

RN ED

CN

Propionic acid, 3-iodo- (6CI, 7CI, 8CI)

```
OTHER NAMES:
    β-Iodopropionic acid
CN
     3-Iodopropanoic acid
CN
     3-Iodopropionic acid
CN
    NSC 2124
     3D CONCORD
FS
     C3 H5 I O2
MF
CI
     COM
LC
     STN Files:
                 ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS,
       CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, GMELIN*, HODOC*,
       MSDS-OHS, NIOSHTIC, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources:
                    EINECS**, NDSL**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
ICH2-CH2-CO2H
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
             180 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
             180 REFERENCES IN FILE CAPLUS (1907 TO DATE)
              17 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
    ANSWER 37 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
L6
RN
    107-08-4 REGISTRY
     Entered STN: 16 Nov 1984
ED
CN
     Propane, 1-iodo- (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
    1-Iodopropane
CN
    n-Propyl iodide
CN
CN
    Propane iodide
CN
     Propyl iodide
FS
     3D CONCORD
MF
     C3 H7 I
CI
     COM
LC
                AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
       BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX,
       CHEMLIST, CHEMSAFE, CSCHEM, DETHERM*, DIPPR*, EMBASE, GMELIN*, HODOC*,
       IFICDB, IFIPAT, IFIUDB, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA,
       PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, USPAT2,
      USPATFULL, VTB
         (*File contains numerically searchable property data)
    Other Sources: DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
H3C-CH2-CH2-I
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
            3145 REFERENCES IN FILE CA (1907 TO DATE)
              13 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
            3153 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
L6
    ANSWER 38 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN
    106-94-5 REGISTRY
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ED

Entered STN: 16 Nov 1984

```
Propane, 1-bromo- (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN
     1-Bromopropane
CN
     1-Propyl bromide
CN
     Ascusol MC
CN
     Leksol
CN
     n-Propyl bromide
CN
     Propyl bromide
FS
     3D CONCORD
MF
     C3 H7 Br
CI
     COM
LC
     STN Files:
                  AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
       BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
       CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*,
       EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE,
       MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, PS, RTECS*,
       SCISEARCH, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL, VTB
         (*File contains numerically searchable property data)
                     DSL**, EINECS**, TSCA**
     Other Sources:
         (**Enter CHEMLIST File for up-to-date regulatory information)
Br-CH2-CH2-CH3
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
            4152 REFERENCES IN FILE CA (1907 TO DATE)
              46 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
            4158 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
L6
     ANSWER 39 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN
     100-39-0 REGISTRY
ED
     Entered STN: 16 Nov 1984
     Benzene, (bromomethyl) - (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
     Toluene, \alpha-bromo- (8CI)
OTHER NAMES:
     (Bromomethyl)benzene
CN
CN
     (Bromophenyl) methane
CN
     \alpha-Bromotoluene
CN
     ω-Bromotoluene
     Benzyl bromide
CN
CN
     NSC 8041
CN
     Phenylmethyl bromide
FS
     3D CONCORD
MF
     C7 H7 Br
CI
     COM
LC
     STN Files:
                AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
       BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX,
       CHEMLIST, CIN, CSCHEM, DETHERM*, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB,
       IFIPAT, IFIUDB, MEDLINE, MRCK*, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS,
       RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
                     DSL**, EINECS**, TSCA**
     Other Sources:
         (**Enter CHEMLIST File for up-to-date regulatory information)
```

```
13497 REFERENCES IN FILE CA (1907 TO DATE)
             101 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
           13535 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
     ANSWER 40 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
L6
RN
     98-92-0 REGISTRY
ED
     Entered STN: 16 Nov 1984
     3-Pyridinecarboxamide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
    Nicotinamide (8CI)
OTHER NAMES:
     β-Pyridinecarboxamide
CN
     3-(Aminocarbonyl)pyridine
CN
     3-Amidopyridine
CN
CN
     3-Carbamoylpyridine
CN
     3-Pyridinecarboxylic acid amide
CN
     Aminicotin
CN
     Benicot
CN
     Delonin Amide
CN
     Dipegyl
CN
     m-(Aminocarbonyl)pyridine
     NAM
CN
CN
     Niacinamide
     Niavit PP
CN
     Nicamina
CN
CN
     Nicamindon
CN
     Nicasir
CN
     Nicobion
     Nicofort
CN
CN
     Nicosan 2
     Nicosylamide
CN
     Nicotilamide
CN
     Nicotine acid amide
CN
     Nicotinic acid amide
CN
CN
     Nicotinic amide
CN
     Nicotylamide
CN
     Nicovit
     Nicovitina
CN
CN
     Nictoamide
CN
     Niocinamide
CN
     Niozymin
     NSC 13128
CN
     NSC 27452
CN
     Papulex
CN
     Pelmin
CN
CN
     Pelmine
CN
     Pelonin amide
     Vi-Nicotyl
CN
     Vitamin B
CN
     Vitamin B3
CN
FS
     3D CONCORD
DR
     123574-63-0, 37321-14-5, 78731-47-2
MF
     C6 H6 N2 O
CI
     COM
                  ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*,
LC
       BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS,
       CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM,
       CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*,
       IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT,
       NIOSHTIC, PDLCOM*, PHAR, PIRA, PROMT, PROUSDDR, PS, RTECS*, SPECINFO,
       TOXCENTER, USAN, USPAT2, USPATFULL, VTB
```

```
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**, WHO
   (**Enter CHEMLIST File for up-to-date regulatory information)
```

9025 REFERENCES IN FILE CA (1907 TO DATE)
402 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
9036 REFERENCES IN FILE CAPLUS (1907 TO DATE)
9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 41 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 75-30-9 REGISTRY

ED Entered STN: 16 Nov 1984

CN Propane, 2-iodo- (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Methylethyl iodide

CN 2-Iodopropane

CN 2-Propyl iodide

CN Isopropyl iodide

CN sec-Propyl iodide

FS 3D CONCORD

MF C3 H7 I

CI COM

LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CSCHEM, DETHERM*, DIPPR*, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL (*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

I H3C-CH-CH3

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2866 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2877 REFERENCES IN FILE CAPLUS (1907 TO DATE)
4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 42 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN

RN 75-26-3 REGISTRY

ED Entered STN: 16 Nov 1984

CN Propane, 2-bromo- (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-Bromopropane

CN Isopropyl bromide

CN sec-Propyl bromide

```
3D CONCORD
FS
MF
     C3 H7 Br
CI
     COM
LC
     STN Files:
                  AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
       BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS,
       CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*,
       EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE,
       MRCK*, MSDS-OHS, NIOSHTIC, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE,
       TOXCENTER, ULIDAT, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
    Br
H3C-CH-CH3
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
            3333 REFERENCES IN FILE CA (1907 TO DATE)
              15 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
            3340 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
     ANSWER 43 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
L6
RN
     75-03-6 REGISTRY
ED
     Entered STN: 16 Nov 1984
CN
     Ethane, iodo- (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
     Ethyl iodide
CN
     Hydriodic ether
CN
     Iodoethane
CN
     Monoiodoethane
CN
     NSC 8825
CN
FS
     3D CONCORD
MF
     C2 H5 I
CI
     COM
                  AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
LC
     STN Files:
       BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
       CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*, EMBASE,
       ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, IFICDB,
       IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA,
       PROMT, PS, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL, VTB
         (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
H3C- CH2- I
```

6769 REFERENCES IN FILE CA (1907 TO DATE)
73 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
6781 REFERENCES IN FILE CAPLUS (1907 TO DATE)
6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 44 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN RN 58-68-4 REGISTRY

```
ED
     Entered STN: 16 Nov 1984
CN
     Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with
     1,4-dihydro-1-β-D-ribofuranosyl-3-pyridinecarboxamide (9CI) (CA
     INDEX NAME)
OTHER CA INDEX NAMES:
     Adenosine 5'-(trihydrogen pyrophosphate), 5'\rightarrow 5'-ester with
     1,4-dihydro-1-\beta-D-ribofuranosylnicotinamide (8CI)
CN
     Adenosine pyrophosphate, 5'→5'-ester with 1,4-dihydro-1-β-D-
     ribofuranosylnicotinamide (7CI)
OTHER NAMES:
CN
     B-DPNH
CN
     B-NADH
CN
     1,4-Dihydronicotinamide adenine dinucleotide
CN
     Codehydrase I, reduced
CN
     Codehydrogenase I, reduced
CN
     Coenzyme I, reduced
     Cozymase I, reduced
CN
CN
     Dihydrocodehydrogenase I
CN
     Dihydrocozymase
CN
     Dihydronicotinamide adenine dinucleotide
CN
     Dihydronicotinamide mononucleotide
CN
     DPNH
CN
     ENADA
CN
     NADH
CN
     NADH2
CN
     Nicotinamide-adenine dinucleotide, reduced
CN
     Reduced codehydrogenase I
CN
     Reduced diphosphopyridine nucleotide
CN
     Reduced nicotinamide adenine diphosphate
     Reduced nicotinamide-adenine dinucleotide
CN
FS
     STEREOSEARCH
DR
     443892-10-2
MF
     C21 H29 N7 O14 P2
CI
                  ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
LC
     STN Files:
       BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST,
       CIN, CSCHEM, DDFU, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB,
       MRCK*, NIOSHTIC, PROMT, TOXCENTER, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
                     DSL**, EINECS**, TSCA**
     Other Sources:
         (**Enter CHEMLIST File for up-to-date regulatory information)
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Absolute stereochemistry.

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-NH<sub>2</sub>
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
           13555 REFERENCES IN FILE CA (1907 TO DATE)
             263 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
           13563 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
L6
     ANSWER 45 OF 45 REGISTRY COPYRIGHT 2006 ACS on STN
RN
     53-57-6 REGISTRY
     Entered STN: 16 Nov 1984
ED
     Adenosine 5'-(trihydrogen diphosphate), 2'-(dihydrogen phosphate),
CN
     P'\rightarrow5'-ester with 1,4-dihydro-1-\beta-D-ribofuranosyl-3-
     pyridinecarboxamide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
     Adenosine, 2'-(dihydrogen phosphate) 5'-(trihydrogen pyrophosphate),
CN
     5'→5'-ester with 1,4-dihydro-1-\beta-D-ribofuranosylnicotinamide
OTHER NAMES:
     B-NADPH
CN
     \beta-Nicotinamide-adenine-dinucleotide-phosphoric acid
CN
CN
     B-TPNH
CN
     51: PN: WO2004076659 FIGURE: 7 claimed sequence
     Codehydrase II, reduced
CN
CN
     Codehydrogenase II, reduced
CN
     Coenzyme II, reduced
CN
     Cozymase II, reduced
CN
     Dihydrocodehydrogenase II
CN
     NADPH
     NADPH2
CN
     Nicotinamide-adenine dinucleotide phosphate, reduced
CN
CN
     Reduced codehydrogenase II
CN
     Reduced nicotinamide adenine dinucleotide phosphate
     Reduced triphosphopyridine nucleotide
CN
CN
     TPNH
     Triphosphopyridine nucleotide, reduced
CN
FS
     STEREOSEARCH
     22046-90-8, 3545-01-5
DR
MF
     C21 H30 N7 O17 P3
CI
     COM
LC
     STN Files:
                 ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
       BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST,
       CIN, CSCHEM, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MRCK*,
       NIOSHTIC, PROMT, TOXCENTER, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
                      EINECS**, NDSL**, TSCA**
     Other Sources:
         (**Enter CHEMLIST File for up-to-date regulatory information)
```

Absolute stereochemistry.

11178 REFERENCES IN FILE CA (1907 TO DATE)

231 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

11189 REFERENCES IN FILE CAPLUS (1907 TO DATE)

57 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 87.70 102.37

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 16:09:35 ON 03 JAN 2006
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http://www.cas.org/infopolicy.html

=> d his

(FILE 'HOME' ENTERED AT 16:03:45 ON 03 JAN 2006)

FILE 'CAPLUS' ENTERED AT 16:04:01 ON 03 JAN 2006

L1 1 S US 20030086933/PN

L2 20735 S RN

L3 93 S CB () 1954

L4 0 S L3 AND L2

FILE 'REGISTRY' ENTERED AT 16:05:24 ON 03 JAN 2006 2902 S L2

L5

FILE 'CAPLUS' ENTERED AT 16:06:06 ON 03 JAN 2006 SEL RN L1

FILE 'REGISTRY' ENTERED AT 16:06:28 ON 03 JAN 2006 L6 45 S E1-E45

FILE 'CAPLUS' ENTERED AT 16:09:35 ON 03 JAN 2006

=> s 16

L7 62737 L6

=> s 17 and 13

L8 87 L7 AND L3

=> s 17 (L) 13

L9 65 L7 (L) L3

=> s NQo2

L10 73 NOO2

=> s 110 and 19

L11 5 L10 AND L9

=> d ibib 1-5

L11 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:301733 CAPLUS

DOCUMENT NUMBER: 141:306746

TITLE: Quinone reductase-mediated nitro-reduction: clinical

applications

AUTHOR(S): Knox, Richard J.; Chen, Shiuan

CORPORATE SOURCE: Enact Pharma PLC, Salisbury, SP4 0JQ, UK

SOURCE: Methods in Enzymology (2004), 382(Quinones and Quinone

Enzymes, Part B), 194-221

CODEN: MENZAU; ISSN: 0076-6879

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

REFERENCE COUNT: 92 THERE ARE 92 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:749515 CAPLUS

DOCUMENT NUMBER: 140:121861

TITLE: CB 1954: From the Walker tumor to NQO2 and

VDEPT

AUTHOR(S): Knox, Richard J.; Burke, Philip J.; Chen, Shiuan;

Kerr, David J.

CORPORATE SOURCE: Enact Pharma PLC, Salisbury, UK

SOURCE: Current Pharmaceutical Design (2003), 9(26), 2091-2104

CODEN: CPDEFP; ISSN: 1381-6128 Bentham Science Publishers Ltd.

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

PUBLISHER:

REFERENCE COUNT: 97 THERE ARE 97 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:835107 CAPLUS

DOCUMENT NUMBER: 139:414

TITLE: Improved cancer treatment with enzyme technology

CORPORATE SOURCE: Enact Pharma, Enact Pharma plc, Salisbury, SP4 0JQ, UK

SOURCE: sp2 (2002), 1(8), 22, 24-25

CODEN: SPSUCF; ISSN: 1476-184X

PUBLISHER: Avakado Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:597759 CAPLUS

DOCUMENT NUMBER: 133:275962

TITLE: Bioactivation of 5-(aziridin-1-yl)-2,4-

dinitrobenzamide (CB 1954) by human NAD(P)H quinone oxidoreductase 2: a novel co-substrate-mediated

antitumor prodrug therapy

AUTHOR(S): Knox, Richard J.; Jenkins, Terence C.; Hobbs, Stephen

M.; Chen, Shiuan; Melton, Roger G.; Burke, Philip J.

CORPORATE SOURCE: Enact Pharma Plc, Salisbury, SP4 0JQ, UK SOURCE: Cancer Research (2000), 60(15), 4179-4186

CODEN: CNREA8; ISSN: 0008-5472

PUBLISHER: American Association for Cancer Research

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:9725 CAPLUS

DOCUMENT NUMBER: 130:76160

TITLE: NAD(P)H:quinone reductase 2- and prodrug-based

therapeutic systems

INVENTOR(S):
Burke, Philip John; Knox, Richard John

PATENT ASSIGNEE(S): Enzacta R & D Limited, UK SOURCE: PCT Int. Appl., 109 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PAT | PATENT NO. | | | | | | | DATE | | APPLICATION NO. | | | DATE | | | |
|----------|-----------------------|------------|-----------|-----------|----------|-------------|------|------|-----------------|-----------------|-------|----------|----------|-----|--------------|-----|
| | 9857 | | | | A2
A3 | | | | WO 1998-GB1731 | | | 19980615 | | | | |
| | RW: | AT,
PT, | BE,
SE | CH, | CY, | | | | FI, F | | | | | | | |
| CA | 2292 | 2292608 | | | AΑ | | 1998 | 1223 | CA 1998-2292608 | | | | 19980615 | | | |
| GB | 2341 | 2341605 | | | A1 | 20000322 | | | GB 1999-28237 | | | | 19980615 | | | |
| | | 2341605 | | | | | | | | | | | | | | |
| | | | | | | | | | EP 1998-929555 | | | 19980615 | | | | |
| EP | 988059 | | | | В1 | 20051207 | | | | | | | | | | |
| | R: | | | CH,
CY | | DK, | ES, | FR, | GB, G | R, IT | , LI, | LU, | NL, | SE, | MC, | PT, |
| GB | 2365 | 2365338 | | | A1 | | 2002 | 0220 | GB 2001-26082 | | | 19980615 | | | | |
| GB | 2365 | 2365338 | | | В2 | B2 20020403 | | | | | | _ | | _ | | |
| | 2002511754 | | | | | | | | | JP 1999-503953 | | | | | | |
| EP | 1468698 | | | | A2 | 20041020 | | | EP 2004-76964 | | | | 19980615 | | | |
| | 1468698 | | | | | | | | | | | | | | | |
| | | AT, | BE, | | DE, | | ES, | FR, | GB, G | | | | | | | |
| US | 6867 | 231 | | | В1 | | 2005 | 0315 | US | | | | | | | |
| | нк 1023069 | | | | | | 2002 | 1011 | | | | | | | | |
| HK | HK 1041824 | | | | | | 2002 | | HK | | | | 20000413 | | | |
| US | US 2003086933 | | | | | | 2003 | 0508 | US | US 2002-99830 | | | 20020313 | | | |
| PRIORITY | RIORITY APPLN. INFO.: | | | | | | | | | 1997 | | | | | | |
| | | | | | | | | | | 1998
1999 | | | | | 9980
9980 | |

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(FILE 'HOME' ENTERED AT 16:03:45 ON 03 JAN 2006)

FILE 'CAPLUS' ENTERED AT 16:04:01 ON 03 JAN 2006

L1 1 S US 20030086933/PN

L2 20735 S RN

L3 93 S CB () 1954 L4 0 S L3 AND L2

FILE 'REGISTRY' ENTERED AT 16:05:24 ON 03 JAN 2006

L5 2902 S L2

FILE 'CAPLUS' ENTERED AT 16:06:06 ON 03 JAN 2006

SEL RN L1

FILE 'REGISTRY' ENTERED AT 16:06:28 ON 03 JAN 2006

L6 45 S E1-E45

FILE 'CAPLUS' ENTERED AT 16:09:35 ON 03 JAN 2006

L7 62737 S L6

L8 87 S L7 AND L3 L9 65 S L7 (L) L3 L10 73 S NQO2

L11 5 S L10 AND L9

=> s NQ01

L12 505 NQ01

=> s 112 and 19

L13 3 L12 AND L9

=> d ibib 1-3

L13 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:301733 CAPLUS

DOCUMENT NUMBER: 141:306746

TITLE: Quinone reductase-mediated nitro-reduction: clinical

applications

AUTHOR(S): Knox, Richard J.; Chen, Shiuan

CORPORATE SOURCE: Enact Pharma PLC, Salisbury, SP4 0JQ, UK

SOURCE: Methods in Enzymology (2004), 382 (Quinones and Quinone

Enzymes, Part B), 194-221

CODEN: MENZAU; ISSN: 0076-6879

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

REFERENCE COUNT: 92 THERE ARE 92 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:749515 CAPLUS

DOCUMENT NUMBER: 140:121861

TITLE: CB 1954: From the Walker tumor to NQO2 and VDEPT Knox, Richard J.; Burke, Philip J.; Chen, Shiuan;

Kerr, David J.

CORPORATE SOURCE: Enact Pharma PLC, Salisbury, UK

SOURCE: Current Pharmaceutical Design (2003), 9(26), 2091-2104

CODEN: CPDEFP; ISSN: 1381-6128

PUBLISHER: Bentham Science Publishers Ltd.

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

REFERENCE COUNT: 97 THERE ARE 97 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:597759 CAPLUS

DOCUMENT NUMBER: 133:275962

TITLE: Bioactivation of 5-(aziridin-1-yl)-2,4-

dinitrobenzamide (CB 1954) by human NAD(P)H quinone

oxidoreductase 2: a novel co-substrate-mediated

antitumor prodrug therapy

AUTHOR(S): Knox, Richard J.; Jenkins, Terence C.; Hobbs, Stephen

M.; Chen, Shiuan; Melton, Roger G.; Burke, Philip J.

CORPORATE SOURCE: Enact Pharma Plc, Salisbury, SP4 0JQ, UK

SOURCE: Cancer Research (2000), 60(15), 4179-4186

CODEN: CNREA8; ISSN: 0008-5472

PUBLISHER: American Association for Cancer Research

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s DT () diaphorase

34025 DT 558 DTS

34532 DT

(DT OR DTS) 6506 DIAPHORASE

629 DIAPHORASES

6719 DIAPHORASE

(DIAPHORASE OR DIAPHORASES)

L14 1030 DT (W) DIAPHORASE

=> s 114 and 19

L15 21 L14 AND L9

=> s 115 not py>1997

7856621 PY>1997

L16 14 L15 NOT PY>1997

=> s 116 not py>1996

8617286 PY>1996

L17 13 L16 NOT PY>1996

=> d ibib 1-5

L17 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:794027 CAPLUS

DOCUMENT NUMBER: 123:275328

TITLE: Bioactivation of dinitrobenzamide mustards by an E.

coli B nitroreductase

AUTHOR(S): Anlezark, G. M.; Melton, R. G.; Sherwood, R. F.;

Wilson, W. R.; Denny, W. A.; Palmer, B. D.; Knox, R.

J.; Friedlos, F.; Williams, A.

CORPORATE SOURCE: Cent. Appl. Microbiol. Res., Porton

Down/Salisbury/Wilts., SP4 0JG, UK

SOURCE: Biochemical Pharmacology (1995), 50(5), 609-18

CODEN: BCPCA6; ISSN: 0006-2952

PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

L17 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:569763 CAPLUS

DOCUMENT NUMBER: 123:106083

TITLE: Catalytic properties of NAD(P)H:quinone acceptor

oxidoreductase: study involving mouse, rat, human, and

mouse-rat chimeric enzymes

AUTHOR(S): Chen, Shiuan; Knox, Richard; Lewis, Alexander D.;

Friedlos, Frank; Workman, Paul; Deng, Paulis S. K.; Fung, Maisie; Ebenstein, Donna; Wu, Kebin; Tsai,

Ta-Ming

CORPORATE SOURCE: Div. Immunol., Beckman Res. Inst. City Hope, Duarte,

CA, 91010, USA

SOURCE: Molecular Pharmacology (1995), 47(5), 934-9

CODEN: MOPMA3; ISSN: 0026-895X

PUBLISHER: Williams & Wilkins

DOCUMENT TYPE: Journal LANGUAGE: English

L17 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1994:44858 CAPLUS

DOCUMENT NUMBER: 120:44858

TITLE: The bioactivation of CB 1954 and its use as a prodrug

in antibody-directed enzyme prodrug therapy (ADEPT) Knox, Richard J.; Friedlos, Frank; Boland, Marion P.

CORPORATE SOURCE: Sec. Drug Dev., Inst. Cancer Res., Sulton/Surrey, SM2

5NG, UK

SOURCE: Cancer and Metastasis Reviews (1993), 12(2), 195-212

CODEN: CMRED4; ISSN: 0167-7659

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AUTHOR(S):

L17. ANSWER 4 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:73228 CAPLUS

DOCUMENT NUMBER: 118:73228

TITLE: Potentiation of CB 1954 cytotoxicity by reduced

pyridine nucleotides in human tumor cells by

stimulation of DT diaphorase

activity

AUTHOR(S): Friedlos, Frank; Biggs, Patrick J.; Abrahamson, Julie

A.; Knox, Richard J.

CORPORATE SOURCE: Sect. Drug Dev., Inst. Cancer Res., Sutton/Surrey, SM2

5NG, UK

SOURCE: Biochemical Pharmacology (1992), 44(9), 1739-43

CODEN: BCPCA6; ISSN: 0006-2952

DOCUMENT TYPE: Journal LANGUAGE: English

L17 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1992:598410 CAPLUS

DOCUMENT NUMBER: 117:198410

TITLE: Metabolism of NAD(P)H by blood components. Relevance

to bioreductively activated prodrugs in a targeted

enzyme therapy system

AUTHOR(S): Friedlos, Frank; Knox, Richard J.

CORPORATE SOURCE: Sect. Drug Dev., Inst. Cancer Res., Sutton/Surrey, SM2

5NG, UK

SOURCE: Biochemical Pharmacology (1992), 44(4), 631-5

CODEN: BCPCA6; ISSN: 0006-2952

DOCUMENT TYPE: Journal LANGUAGE: English

```
AB
    NAD(P)H:quinone acceptor oxidoreductase (quinone reductase) (DT-
     diaphorase, EC 1.6.99.2) is involved in the process of reductive
     activation of cytotoxic antitumor quinones and nitrobenzenes. This study
     initially examined.
ΙT
     21919-05-1, CB 1954
                          114560-48-4, EO9
     RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (catalytic properties of NAD(P)H:quinone acceptor oxidoreductase: study
        involving mouse, rat, human, and mouse-rat chimeric enzymes)
=> s 21919-05-1/rn
           169 21919-05-1
             5 21919-05-1D
L18
           167 21919-05-1/RN
                 (21919-05-1 (NOTL) 21919-05-1D)
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L1
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              0 S L3 AND L2
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L7
          62737 S L6
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             65 S L7 (L) L3
L9
L10
             73 S NOO2
L11
              5 S L10 AND L9
            505 S NQ01
L12
              3 S L12 AND L9
L13
           1030 S DT () DIAPHORASE
L14
L15
             21 S L14 AND L9
             14 S L15 NOT PY>1997
L16
L17
             13 S L16 NOT PY>1996
L18
            167 S 21919-05-1/RN
=> d kwic 4
L18 ANSWER 4 OF 167 CAPLUS COPYRIGHT 2006 ACS on STN
     51-21-8, 5-FU 21919-05-1, CB1954
                                       23214-92-8, Doxorubicin
     33069-62-4, Paclitaxel 123948-87-8, Topotecan
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (inhibition of NF-kB enhances the cytotoxicity of virus-directed
        enzyme prodrug therapy and oncolytic adenovirus cancer gene therapy)
```

ANSWER 2 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

L17

L18 ANSWER 6 OF 167 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:465003 CAPLUS

DOCUMENT NUMBER: 143:159026

TITLE: Nitroarylmethylcarbamate prodrugs of doxorubicin for

use with nitroreductase gene-directed enzyme prodrug

therapy

AUTHOR(S): Hay, Michael P.; Wilson, William R.; Denny, William A.

CORPORATE SOURCE: Auckland Cancer Society Research Centre, Faculty of

Medical and Health Sciences, The University of

Auckland, Auckland, 92019, N. Z.

SOURCE: Bioorganic & Medicinal Chemistry (2005), 13(12),

4043-4055

CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 58 THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 7 OF 167 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:1050014 CAPLUS

DOCUMENT NUMBER: 142:253968

TITLE: The gene suicide system NTR/CB1954 causes ablation of

differentiated 3T3L1 adipocytes by apoptosis

AUTHOR(S): Felmer, Ricardo N.; Clark, John A.

CORPORATE SOURCE: Department of Gene Expression and Development, Roslin

Institute, Roslin, Midlothian, EH25 9PS, UK Biological Research (2004), 37(3), 449-460

CODEN: BESEEB; ISSN: 0716-9760

PUBLISHER: Society of Biology of Chile

DOCUMENT TYPE: Journal LANGUAGE: English

SOURCE:

PUBLISHER:

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 8 OF 167 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:1040532 CAPLUS

DOCUMENT NUMBER: 142:253408

TITLE: Nitroreductase: A prodrug-activating enzyme for cancer

gene therapy

AUTHOR(S): Searle, Peter F.; Chen, Ming-Jen; Hu, Longqin; Race,

Paul R.; Lovering, Andrew L.; Grove, Jane I.; Guise, Chris; Jaberipour, Mansooreh; James, Nicholas D.; Mautner, Vivien; Young, Lawrence S.; Kerr, David J.; Mountain, Andrew; White, Scott A.; Hyde, Eva I.

CORPORATE SOURCE: Cancer Research UK Institute for Cancer Studies,

University of Birmingham, Edgbaston, UK

SOURCE: Clinical and Experimental Pharmacology and Physiology

(2004), 31(11), 811-816

CODEN: CEXPB9; ISSN: 0305-1870 Blackwell Publishing Asia Pty Ltd.

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 9 OF 167 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:965067 CAPLUS

DOCUMENT NUMBER: 141:406039

TITLE: Combinations for the treatment of diseases involving

cell proliferation, migration or apoptosis of myeloma

cells, or angiogenesis

INVENTOR(S): Hilberg, Frank; Solca, Flavio; Stefanic, Martin

Friedrich; Baum, Anke; Munzert, Gerd; Van Meel,

Jacobus C. A.

PATENT ASSIGNEE(S): Boehringer Ingelheim International G.m.b.H., Germany;

Boehringer Ingelheim Pharma G.m.b.H. & Co. K.-G.

SOURCE: PCT Int. Appl., 101 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PAT | PATENT NO. | | | | | | KIND DATE | | | APPL: | | | DATE | | | | |
|----------------|--------------|---|--|--|--|--|-----------|---|--|--|--|--|--|--|--|--|--|
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0030 | 429
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L18 ANSWER 10 OF 167 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:941577 CAPLUS

DOCUMENT NUMBER: 142:253791

TITLE: Virus-directed enzyme prodrug therapy: intratumoral

administration of a replication-deficient adenovirus encoding nitroreductase to patients with resectable

liver cancer

AUTHOR(S): Palmer, Daniel H.; Mautner, Vivien; Mirza, Darius;

Oliff, Simon; Gerritsen, Winald; van der Sijp, Joost R. M.; Hubscher, Stefan; Reynolds, Gary; Bonney, Sarah; Rajaratnam, Ratna; Hull, Diana; Horne, Mark; Ellis, John; Mountain, Andrew; Hill, Simon; Harris, Peter A.; Searle, Peter F.; Young, Lawrence S.; James,

Nicholas D.; Kerr, David J.

CORPORATE SOURCE: Cancer Research UK Institute for Cancer Studies,

Department of Pathology and Liver Research

Laboratories, University of Birmingham, Edgbaston,

Birmingham, UK

SOURCE: Journal of Clinical Oncology (2004), 22(9), 1546-1552

CODEN: JCONDN; ISSN: 0732-183X

PUBLISHER: American Society of Clinical Oncology

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L2
          20735 S RN
L3
             93 S CB () 1954
              0 S L3 AND L2
L4
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     FILE 'REGISTRY' ENTERED AT 16:06:28 ON 03 JAN 2006
L6
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L7
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             73 S NQ02
              5 S L10 AND L9
L11
            505 S NOO1
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              3 S L12 AND L9
L14
           1030 S DT () DIAPHORASE
             21 S L14 AND L9
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             13 S L16 NOT PY>1996
L17
            167 S 21919-05-1/RN
L18
=> d 117 ibib kwic 4
L17 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
                         1993:73228 CAPLUS
DOCUMENT NUMBER:
                         118:73228
                         Potentiation of CB 1954 cytotoxicity by reduced
TITLE:
                         pyridine nucleotides in human tumor cells by
                         stimulation of DT diaphorase
                         activity
AUTHOR(S):
                         Friedlos, Frank; Biggs, Patrick J.; Abrahamson, Julie
                         A.; Knox, Richard J.
CORPORATE SOURCE:
                         Sect. Drug Dev., Inst. Cancer Res., Sutton/Surrey, SM2
                         5NG, UK
                         Biochemical Pharmacology (1992), 44(9), 1739-43
SOURCE:
                         CODEN: BCPCA6; ISSN: 0006-2952
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         English
     Potentiation of CB 1954 cytotoxicity by reduced pyridine nucleotides in
TT
     human tumor cells by stimulation of DT diaphorase
     activity
     The toxicity of CB 1954 [5-(aziridin-1-yl)-2,4-dinitrobenzamide] towards
AΒ
     human cells was greatly enhanced by NADH (when fetal calf serum was
     present in the culture medium) and by nicotinamide riboside (reduced)
     (NRH), but not by nicotinate riboside (reduced). Co-treatment of human
     cells with CB 1954 and NADH resulted in the formation of crosslinks in
     their DNA. The toxicity produced by other DNA crosslinking agents was
     unaffected by reduced nicotinamide compds. When caffeine was included in
     the medium, a reduction in the cytotoxicity of CB 1954 occurred. The toxicity
     experienced by human cell lines after exposure to CB 1954 and NADH was
     proportional to their levels of the enzyme DT diaphorase
     [NAD(P)H dehydrogenase (quinone), (EC 1.6.99.2.)]. It is concluded that
     NRH, which the authors have shown to be a co-factor for rat DT
     diaphorase (Friedlos et al., Biochem Pharmacol 44; 25-31, 1992),
     is generated from NADH by enzymes in fetal calf serum, and stimulates the
     activity of human DT diaphorase towards CB 1954.
ST
     CB 1954 cytotoxicity reduced pyridine nucleotide; DT
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diaphorase CB 1954 cytotoxicity NADH
IT
     58-68-4, NADH 110-86-1D, Pyridine, reduced nucleotides
     1341-23-7
                17720-18-2
     RL: BIOL (Biological study)
        (cytotoxicity of CB 1954 potentiation by,
        DT diaphorase stimulation in, in human cells)
TΤ
     21919-05-1, CB 1954
     RL: PRP (Properties)
        (cytotoxicity of, reduced pyridine nucleotides enhancement of,
        DT diaphorase stimulation in, in human cells)
=> d 117 kwic 1-13
L17 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
     . . terms of ADEPT, SN 23862 has a potential advantage over CB 1954
     in that it is not reduced by mammalian DT diaphorases.
     Therefore, a series of compds. related to SN 23862 has been synthesized,
     and evaluated as potential prodrugs both by determination. . . cytotoxicity
in
     presence of enzyme and cofactor were not substrates for the enzyme. None
     of the analogs were activated by DT diaphorase
     isolated from Walter 256 carcinoma cells. For those compds. which were substrates for the E. coli nitroreductase, there was a. . .
IT
     50-07-7, Mitomycin C
                           443-48-1, Metronidazole 4533-39-5, Nitracrine
     13551-87-6, Misonidazole
                                20063-73-4, Nitracrine N-oxide
     21919-05-1, CB 1954 27314-97-2, Tirapazamine
     55743-71-0, SN 23163
                           136990-96-0, SN 24771
                                                     142439-52-9, SN 23428
     142439-53-0, SN 23759
                             142439-56-3, SN 23849
                                                     142439-57-4, SN 23777
     142439-61-0, SN 23862
150271-87-7, SN 24927
150271-91-3, SN 24939
                             142439-62-1, SN 23856
                                                     142439-63-2, SN 23816
                             150271-88-8, SN 24928 150271-89-9, SN 24926
                             150271-92-4, SN 24935 150271-93-5, SN 25015
     150271-94-6, SN 24971
                             150271-95-7, SN 25066 150271-96-8, SN 25079
     150271-98-0, SN 25263
                             150271-99-1, SN 25260 150272-00-7, SN 25261
     150272-01-8, SN 25313
                             150272-02-9, SN 25084 150272-03-0, SN 25188
     150503-17-6, SN 25246
                             156423-03-9, SN 25293 169527-43-9, SN 25402
     169527-44-0, SN 25507
     RL: BAC (Biological activity or effector, except adverse); BPR (Biological
     process); BSU (Biological study, unclassified); THU (Therapeutic use);
     BIOL (Biological study); PROC (Process); USES (Uses)
        (bioactivation of dinitrobenzamide mustards by E. coli B
        nitroreductase)
L17
    ANSWER 2 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
     NAD(P)H:quinone acceptor oxidoreductase (quinone reductase) (DT-
AB
     diaphorase, EC 1.6.99.2) is involved in the process of reductive
     activation of cytotoxic antitumor quinones and nitrobenzenes. This study
     initially examined.
IT
     21919-05-1, CB 1954
                          114560-48-4, EO9
     RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (catalytic properties of NAD(P)H:quinone acceptor oxidoreductase: study
        involving mouse, rat, human, and mouse-rat chimeric enzymes)
    ANSWER 3 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
AΒ
     . . . in insensitive cells. Crosslink formation is due to the aerobic
     reduction of CB 1954 to form 5-(aziridin-1-yl)-4-hydroxylamino-2-
     nitrobenzamide by the enzyme DT diaphorase. The
     4-hydroxylamine can not crosslink DNA directly but requires further
     activation by a non-enzymic reaction with a thioester (such as acetyle
     CoA). As predicted from their measured DT diaphorase
     activities, a number of rat hepatoma and hepatocyte cell lines are also
     sensitive to CB 1954. However, no CB 1954-sensitive. . . human origin
     have been found. This is because the rate of reduction of CB 1954 by the
```

human form of DT diaphorase is much lower than that of the Walker enzyme (ratio of Kcat = 6.4). To overcome this intrinsic resistance of. . . (ADEPT). A nitroreductase enzyme has been isolated from E. coli that can bioactivate CB 1954 much more rapidly than Walker DT diaphorase and is very suitable for ADEPT. Thus CB 1954 may have a role in the therapy of human tumors. 21919-05-1, CB 1954 RL: BIOL (Biological study) (bioactivation of and use in antibody-directed enzyme prodrug therapy) L17 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN Potentiation of CB 1954 cytotoxicity by reduced pyridine nucleotides in human tumor cells by stimulation of DT diaphorase activity . . . experienced by human cell lines after exposure to CB 1954 and NADH was proportional to their levels of the enzyme DT diaphorase [NAD(P)H dehydrogenase (quinone), (EC 1.6.99.2.)]. It is concluded that NRH, which the authors have shown to be a co-factor for rat DT diaphorase (Friedlos et al., Biochem Pharmacol 44; 25-31, 1992), is generated from NADH by enzymes in fetal calf serum, and stimulates the activity of human DT diaphorase towards CB 1954. CB 1954 cytotoxicity reduced pyridine nucleotide; DT diaphorase CB 1954 cytotoxicity NADH 110-86-1D, Pyridine, reduced nucleotides 58-68-4, NADH 1341-23-7 17720-18-2 RL: BIOL (Biological study) (cytotoxicity of CB 1954 potentiation by, DT diaphorase stimulation in, in human cells) 21919-05-1, CB 1954 RL: PRP (Properties) (cytotoxicity of, reduced pyridine nucleotides enhancement of, DT diaphorase stimulation in, in human cells) L17 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN . . . from human, fetal calf and horse sources was capable of driving the bioreductive activation of CB 1954 by the enzyme DT diaphorase. Cell surfaces oxidized NADH or NRH. These observations suggest that NAD(P)H would be unsuitable as a source of reducing equivalent. 21919-05-1, CB 1954 RL: BIOL (Biological study) (prodrug, bioreductive activation of, NADPH suitability for) ANSWER 6 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN L17 Alkylating agents, biological Cytotoxic agents (CB 1954, DNA adducts and crosslinking by, in Walker 256 tumor cells, DT diaphorase bioactivation in relation to) Deoxyribonucleic acids RL: RCT (Reactant); RACT (Reactant or reagent) (crosslinking of, with CB 1954, in Walker 256 tumor cells, DT diaphorase bioactivation and cytotoxic activity in relation to) Animal cell line (Walker carcinosarcoma, CB 1954 bioactivation by DT diaphorase in, cytotoxic activity and DNA adduct formation and crosslinking in relation to) Deoxyribonucleic acids RL: BIOL (Biological study) (adducts, with CB 1954, in Walker 256 tumor cells, DT diaphorase bioactivation and cytotoxicity in relation to) Pharmaceutical dosage forms (prodrugs, CB 1954 as, in Walker 256 tumor cells, DT diaphorase activation and cytotoxic activity in relation to)

ΙT

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IT
     21919-05-1, CB 1954
     RL: BIOL (Biological study)
        (DNA adduct and interstrand crosslink formation, in Walker 256 cells,
        DT diaphorase bioactivation and cytotoxicity in
        relation to)
    ANSWER 7 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
L17
     The differences in kinetics of rat and human DT
\mathtt{TI}
     diaphorase result in a differential sensitivity of derived cell
     lines to CB 1954 (5-(aziridin-1-yl)-2,4-dinitrobenzamide) [Erratum to
     document cited in CA115(1):332c].
ST
     Erratum aziridinyldinitrobenzamide tumor sensitivity DT
     diaphorase
IT
     Neoplasm inhibitors
        ((aziridinyl)dinitrobenzamide as, tumor sensitivity to, in humans and
        laboratory animals, DT diaphorase kinetics in relation to
        (Erratum))
IT
     119643-82-2
     RL: FORM (Formation, nonpreparative)
        (formation of, from CB 1954, DT
        diaphorase of humans and laboratory animals induction of (Erratum))
ΤT
     21919-05-1
     RL: BIOL (Biological study)
        (tumor sensitivity to, of humans and laboratory animals, DT
        diaphorase kinetics in relation to (Erratum))
L17 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
     . . the active form of CB 1954 (5-(aziridin-1-y1)-2,4-
     dinitrobenzamide). This hydroxylamine is formed by the bioredn. of CB
     1954 by the enzyme DT diaphorase and accounts for the
     highly selective cytotoxicity of this compound The reason why the
     hydroxylamine derivative is so cytotoxic is.
IΤ
     9032-20-6, DT Diaphorase
     RL: BIOL (Biological study)
        (CB 1954 bioactivation by, DNA interstrand crosslinking from,
        thioesters in, cytotoxicity in relation to)
     21919-05-1, CB 1954
IT
     RL: BIOL (Biological study)
        (bioactivation of, DNA-DNA interstrand crosslinking in, thioesters in)
ΙT
     119643-82-2
     RL: BIOL (Biological study)
        (reaction with DNA of, as CB 1954 metabolite,
        thioesters effect on, cytotoxicity in relation to)
L17 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
AΒ
     . . . cells defective or proficient in excision repair or repair of
     double strand breaks and/or with normal or reduced levels of DT-
     diaphorase activity is reported to investigate the toxicity of a
     variety of bioreductive agents under both aerobic and hypoxic conditions.
     The. . . for any one agent, may differ markedly under aerobic and
     hypoxic conditions. The studies also show that while the enzyme
     DT-diaphorase plays a major role in determining mitomycin C
     (MM-C) toxicity under aerobic conditions, this is not true for hypoxic
     conditions.. .
IT
     9032-20-6, DT-diaphorase
     RL: BIOL (Biological study)
        (Chinese hamster cell mutants deficient in, bioreductive agents effect
        on)
ΙT
     21919-05-1, CB-1954
                           27314-97-2, SR-4233
     88876-88-4, RSU-1069
     RL: BIOL (Biological study)
        (DNA repair- and reduction-deficient Chinese hamster cell mutants response
        to)
```

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L17
    ANSWER 10 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
ΤI
     The differences in kinetics of rat and human DT
     diaphorase result in a differential sensitivity of derived cell
     lines to CB 1954 (5-(aziridin-1-y1)-2,4-dinitrobenzamide)
     DT diaphorase (NAD(P)H dehydrogenase (quinone), EC
AB
     1.6.99.2) isolated from Walker 256 rat carcinoma cells can convert CB 1954
     to a cytotoxic DNA. . . CB 1954 when compared with other cells which
     are unable to carry out this reduction As predicted from their measured
     DT diaphorase activities a number of rat hepatoma and
     hepatocyte cell lines were also shown to be sensitive to CB 1954.
     However, no CB 1954-sensitive cell lines of human origin were found,
     although levels of DT diaphorase similar to those in
     the sensitive rat cells were present in these cells.
                                                           The human cells were
     as sensitive as rat cells to the active form of CB 1954
     (5-(aziridin-1-yl)-4-hydroxylamino-2-nitrobenzamide). DT
     diaphorase, purified to homogeneity from human Hep G2 cells, did
     metabolize CB 1954 to this 4-hydroxylamino product, but the rate of.
           In addition, CB 1954 could be considered an inhibitor of, rather than
     a substrate for, the human form of DT diaphorase.
     purified rat and human DT diaphorases possessed
     otherwise similar biochem. and mol. properties. These findings explain
     the decreased sensitivity towards CB 1954 of human cell lines. . .
ST
     aziridinyldinitrobenzamide tumor sensitivity DT
     diaphorase kinetics
IT
     Neoplasm inhibitors
        ((aziridinyl)dinitrobenzamide as, tumor sensitivity to, in humans and
        laboratory animals, DT diaphorase kinetics in relation
        to)
IT
     119643-82-2
     RL: FORM (Formation, nonpreparative)
        (formation of, from CB 1954, DT
        diaphorase of humans and laboratory animals induction of)
ΙT
     21919-05-1, CB 1954
     RL: BIOL (Biological study)
        (tumor sensitivity to, of humans and laboratory animals, DT
        diaphorase kinetics in relation to)
    ANSWER 11 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
L17
ΤI
     Caffeine, aminoimidazolecarboxamide and dicoumarol, inhibitors of NAD(P)H
     dehydrogenase (quinone) (DT diaphorase), prevent both
     the cytotoxicity and DNA interstrand crosslinking produced by
     5-(aziridin-1-yl)-2,4-dinitrobenzamide (CB 1954) in Walker cells
IT
     21919-05-1, CB 1954
     RL: BIOL (Biological study)
        (neoplasm inhibition by and DNA crosslinking from, NAD(P)H
        dehydrogenase inhibition in relation to)
L17 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
AΒ
     . . . as estimated by SDS-polyacrylamide gel electrophoresis, was isolated
     from Walker cells and identified as a form of NAD(P)H dehydrogenase
     (quinone) (DT diaphorase, EC 1.6.99.2). This enzyme,
     in the presence of NADH or NADPH, catalyzed the aerobic reduction of CB 1954
     to 5-(aziridin-1-yl)-4-hydroxylamino-2-nitrobenzamide.. .
ΙT
     119643-82-2
     RL: FORM (Formation, nonpreparative)
        (formation of, as CB 1954 antitumor metabolite)
IT
     21919-05-1, CB 1954
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
     (Uses)
        (neoplasm inhibition by, DNA crosslinking by metabolite in)
L17 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
AΒ
     . . . of its 4-nitro group to the corresponding hydroxylamino species.
```

The enzyme was identified as a form of NAD(P)H dehydrogenase (quinone) (DT diaphorase, menadione reductase (NMOR), phylloquinone reductase, quinone reductase, EC 1.6.99.2) by comparison of partial protein sequences, coenzymes, substrate and inhibitor specificities,. .

IT 21919-05-1, CB 1954

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(neoplasm inhibition by, NADPH dehydrogenase activation of)

=> FIL REGISTRY

| COST IN U.S. DOLLARS | SINCE FILE | \mathtt{TOTAL} |
|--|------------|------------------|
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 71.86 | 174.23 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | -9.00 | -9.00 |

FILE 'REGISTRY' ENTERED AT 16:22:31 ON 03 JAN 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2006 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 2 JAN 2006 HIGHEST RN 870976-29-7 DICTIONARY FILE UPDATES: 2 JAN 2006 HIGHEST RN 870976-29-7

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> S 1341-23-7/RN

L19 1 1341-23-7/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND SET COMMAND COMPLETED

=> D L19 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):Y THE ESTIMATED COST FOR THIS REQUEST IS 6.36 U.S. DOLLARS DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L19 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

RN 1341-23-7 REGISTRY

CN Pyridinium, 3-(aminocarbonyl)-1- β -D-ribofuranosyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Pyridinium, 3-carbamoyl-1- β -D-ribofuranosyl- (8CI)

OTHER NAMES:

CN 3-Pyridinecarboxamide, $1-\beta-D-ribosyl-$

CN Nicotinamide ribonucleoside

CN Nicotinamide ribose

CN Nicotinamide riboside

CN Ribosylnicotinamide

FS STEREOSEARCH

DR 19131-72-7, 20299-13-2

MF C11 H15 N2 O5

CI COM

LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, EMBASE, MEDLINE, TOXCENTER, USPATFULL (*File contains numerically searchable property data)

DT.CA Caplus document type: Conference; Journal; Patent; Report

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

Absolute stereochemistry.

74 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

74 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND SET COMMAND COMPLETED

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

| COST IN U.S. DOLLARS | SINCE FILE
ENTRY | TOTAL
SESSION |
|--|---------------------|------------------|
| FULL ESTIMATED COST | 2.78 | 177.01 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| CA SUBSCRIBER PRICE | ENTRY
0.00 | SESSION
-9.00 |

STN INTERNATIONAL LOGOFF AT 16:23:38 ON 03 JAN 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

```
* * * * * * * * * *
                     Welcome to STN International
                                                    * * * * * * * * *
                 Web Page URLs for STN Seminar Schedule - N. America
NEWS
NEWS 2
                 "Ask CAS" for self-help around the clock
NEWS 3 SEP 09
                 ACD predicted properties enhanced in REGISTRY/ZREGISTRY
NEWS 4
         OCT 03
                 MATHDI removed from STN
NEWS 5
         OCT 04
                 CA/CAplus-Canadian Intellectual Property Office (CIPO) added
                 to core patent offices
         OCT 13
NEWS
      6
                 New CAS Information Use Policies Effective October 17, 2005
NEWS
      7
         OCT 17
                 STN(R) AnaVist(TM), Version 1.01, allows the export/download
                 of CAplus documents for use in third-party analysis and
                 visualization tools
NEWS 8 OCT 27
                 Free KWIC format extended in full-text databases
NEWS 9 OCT 27
                DIOGENES content streamlined
NEWS 10 OCT 27
                 EPFULL enhanced with additional content
NEWS 11 NOV 14 CA/CAplus - Expanded coverage of German academic research
NEWS 12 NOV 30 REGISTRY/ZREGISTRY on STN(R) enhanced with experimental
                 spectral property data
NEWS 13 DEC 05 CASREACT(R) - Over 10 million reactions available
NEWS 14 DEC 14 2006 MeSH terms loaded in MEDLINE/LMEDLINE
NEWS 15
         DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
NEWS 16
         DEC 14 CA/CAplus to be enhanced with updated IPC codes
NEWS 17
         DEC 16 MARPATprev will be removed from STN on December 31, 2005
NEWS 18
         DEC 21 IPC search and display fields enhanced in CA/CAplus with the
                IPC reform
         DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/USPAT2
NEWS 19
NEWS EXPRESS JANUARY 03 CURRENT VERSION FOR WINDOWS IS V8.01,
```

CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT http://download.cas.org/express/v8.0-Discover/

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NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

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=> FIL STNGUIDE COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'STNGUIDE' ENTERED AT 15:22:35 ON 06 JAN 2006
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LAST RELOADED: Dec 30, 2005 (20051230/UP).

=> FIL HOME

COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.06 0.27

FILE 'HOME' ENTERED AT 15:22:41 ON 06 JAN 2006

=> file caplus

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
0.21
0.48

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FILE COVERS 1907 - 6 Jan 2006 VOL 144 ISS 3 FILE LAST UPDATED: 5 Jan 2006 (20060105/ED)

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=> s reptil?

L1 4453 REPTIL?

=> s cancer? or tumor? or neoplas?

279751 CANCER? 413585 TUMOR? 434430 NEOPLAS?

L2 684933 CANCER? OR TUMOR? OR NEOPLAS?

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L3 40 L2 (L) L1

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539633 SERUM 16746 SERUMS

45550 SERA

9 SERAS

563711 SERUM

(SERUM OR SERUMS OR SERA OR SERAS)

L4 8 L3 AND SERUM

=> d ibib 1-4

L4 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:1001845 CAPLUS

DOCUMENT NUMBER: 143:263083

TITLE: Supersensitive immunoassays for diagnosing cancer and

other diseases

INVENTOR(S): Drukier, Andrzej K.

PATENT ASSIGNEE(S): USA

SOURCE: PCT Int. Appl., 121 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | | | | KIND | | DATE | | | APPLICATION NO. | | | | | DATE | | | |
|---------------|-----|-----|-------------|------|-----|------|------|------|-----------------|-----|-----|----------|-----|------|-----|-----|----|
| | | | | | | | | | | | | | | | | | |
| WO 2005084283 | | | A2 20050915 | | | 1 | WO 2 | 005- | US64 | 72 | | 20050301 | | | | | |
| W: | ΑĖ, | AG, | AL, | AM, | AT, | ΑU, | ΑZ, | BA, | BB, | BG, | BR, | BW, | BY, | BZ, | CA, | CH, | |
| | CN, | CO, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | EG, | ES, | FI, | GB, | GD, | |
| | GE, | GH, | GM, | HR, | HU, | ID, | IL, | IN, | IS, | JP, | KE, | KG, | KP, | KR, | ΚZ, | LC, | |
| | LK, | LR, | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | MZ, | NA, | NI, | |
| | NO, | NZ, | OM, | PG, | PH, | PL, | PT, | RO, | RU, | SC, | SD, | SE, | SG, | SK, | SL, | SM, | |
| | SY, | ТJ, | TM, | TN, | TR, | TT, | TZ, | UA, | ŪG, | US, | UZ, | VC, | VN, | YU, | ZA, | ZM, | zw |
| RW: | BW, | GH, | GM, | KE, | LS, | MW, | MZ, | NA, | SD, | SL, | SZ, | TZ, | UG, | ZM, | ZW, | AM, | |

AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,

MR, NE, SN, TD, TG

US 2005272110 A1 20051208 US 2005-65347 20050225
PRIORITY APPLN. INFO.: US 2004-548186P P 20040301
US 2005-65347 A 20050225

L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:937823 CAPLUS

DOCUMENT NUMBER: 140:193175

TITLE: AMH/MIS: what we know already about the gene, the

protein and its regulation

AUTHOR(S): Rey, Rodolfo; Lukas-Croisier, Celine; Lasala, Celina;

Bedecarras, Patricia

CORPORATE SOURCE: Centro de Investigaciones Endocrinologicas, Hospital

de Ninos R. Gutierrez, Buenos Aires, Argent.

SOURCE: Molecular and Cellular Endocrinology (2003), 211(1-2),

21-31

CODEN: MCEND6; ISSN: 0303-7207

PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

REFERENCE COUNT: 128 THERE ARE 128 CITED REFERENCES AVAILABLE FOR

THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:76544 CAPLUS

DOCUMENT NUMBER: 138:112401

TITLE: Antitumor activity from alligator serum INVENTOR(S): Binah, Ofer; Ciechanover, Aaron; Maor, Gila

PATENT ASSIGNEE(S): Natural Cure Ltd., Israel SOURCE: PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATE | PATENT NO. | | | | | | KIND DATE | | | APPLICATION NO. | | | | | | DATE | | | |
|------------------|--------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|-----------------|--------------|----------------------|-----------------|------------|----------------------|---------------|------------|--|--|
| | WO 2003007874
WO 2003007874 | | | | | A2 20030130 | | | | WO 2 | | | 20020718 | | | | | | |
| | | AE,
CO,
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CR,
HR, | AL,
CU,
HU, | AM,
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KP, | FI,
KR, | GB,
KZ, | GD,
LC, | GE,
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LR, | | |
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YU, | SG, | SI, | SK, | • | • | • | • | • | • | • | | |
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NL, | CH,
PT, | CY,
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SK, | DE,
TR, | DK, | EE, | ES, | | |
| | CA 2454345
EP 1435981 | | | | AA
A2 | | 2003
2004 | 0130
0714 | ML, MR, NE, SN, TD, CA 2002-2454345 EP 2002-751590 GB, GR, IT, LI, LU, I | | | | | | 20020718
20020718 | | | | |
| US 2
PRIORITY | 20042 | IE,
24758 | SI,
39 | LT, | LV,
A1 | FI, | RO,
2004 | мк,
1209 | CY, | AL,
US 2 | TR,
004-1 | BG,
7615:
1444 | CZ,
28
47 | EE, | SK 20 | 0040;
0010 | 120
719 | | |
| | | | | | | 2 | | | • | | | 0020 | , 10 | | | | | | |

DOCUMENT NUMBER: 129:26318

TITLE: Comparison of the growth promoting effects of

serum transferrins from different animals on

mouse mammary tumor cell line GR2H6

AUTHOR(S): Shi, Min; Jing, Nai-He; Feng, You-Min

CORPORATE SOURCE: Shanghai Institute of Biochemistry, Chinese Academy of

Sciences, Shanghai, 200031, Peop. Rep. China

SOURCE: Shengwu Huaxue Yu Shengwu Wuli Xuebao (1998), 30(1),

101-103

CODEN: SHWPAU; ISSN: 0582-9879

PUBLISHER: Shanghai Kexue Jishu Chubanshe

DOCUMENT TYPE: Journal LANGUAGE: Chinese

=> d ibib 5-8

ANSWER 5 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:59301 CAPLUS

DOCUMENT NUMBER: 124:109133

TITLE: Universal assay of vitellogenin as a biomarker for

environmental estrogens

AUTHOR(S): Heppell, Scott A.; Denslow, Nancy D.; Folmar, Leroy

C.; Sullivan, Craig V.

Department Zoology, North Carolina State University, Raleigh, NC, 27695, USA CORPORATE SOURCE:

Environmental Health Perspectives Supplements (1995), SOURCE:

103(Suppl. 7), 9-15

CODEN: EHPSEO; ISSN: 1078-0475

PUBLISHER: National Institute of Environmental Health Sciences

DOCUMENT TYPE: Journal LANGUAGE: English

ANSWER 6 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1973:69615 CAPLUS

DOCUMENT NUMBER: 78:69615

TITLE: Parallel determinations of FDP [fibrinogen degradation

product] and fibrin monomers with various methods

AUTHOR(S): Hedner, U.; Nilsson, I. M.

CORPORATE SOURCE: Coagulation Lab., Allmanna Sjukhuset, Malmo, Swed. SOURCE: Thrombosis et Diathesis Haemorrhagica (1972), 28(2),

268-79

CODEN: TDHAAT; ISSN: 0340-5338

DOCUMENT TYPE: Journal LANGUAGE: English

ANSWER 7 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1966:432692 CAPLUS

65:32692 DOCUMENT NUMBER:

AUTHOR(S):

ORIGINAL REFERENCE NO.: 65:6101e-h,6102a

TITLE: Modification of the electrokinetic response of blood

> platelets to aggregating agents Hampton, J. R.; Mitchell, J. R. A.

CORPORATE SOURCE: Radcliffe Infirmary Oxford, UK

SOURCE: Nature (London, United Kingdom) (1966), 210(5040),

1000-2

CODEN: NATUAS; ISSN: 0028-0836

DOCUMENT TYPE: Journal LANGUAGE: English

ANSWER 8 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1938:60634 CAPLUS

DOCUMENT NUMBER: 32:60634 ORIGINAL REFERENCE NO.: 32:8526c-h TITLE: Comparative physiology of the vertebrate hypophysis

(anterior and intermediate lobes)

AUTHOR(S): Witschi, Emil

SOURCE: Cold Spring Harbor Symposia on Quantitative Biology

(1937), 5, 180-90

CODEN: CSHSAZ; ISSN: 0091-7451

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST

20.25 20.73

STN INTERNATIONAL LOGOFF AT 15:24:37 ON 06 JAN 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America

NEWS 2 "Ask CAS" for self-help around the clock

NEWS 3 JAN 17 Pre-1988 INPI data added to MARPAT

NEWS 4 FEB 21 STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results

NEWS 5 FEB 22 The IPC thesaurus added to additional patent databases on STN

NEWS 6 FEB 22 Updates in EPFULL; IPC 8 enhancements added

NEWS 7 FEB 27 New STN AnaVist pricing effective March 1, 2006

NEWS 8 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes

NEWS 9 MAR 22 EMBASE is now updated on a daily basis

NEWS 10 APR 03 New IPC 8 fields and IPC thesaurus added to PATDPAFULL

NEWS 11 APR 03 Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL

NEWS 12 APR 04 STN AnaVist \$500 visualization usage credit offered

NEWS 13 APR 12 LINSPEC, learning database for INSPEC, reloaded and enhanced

NEWS 14 APR 12 Improved structure highlighting in FQHIT and QHIT display in MARPAT

NEWS 15 APR 12 Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected

NEWS 16 MAY 10 CA/CAplus enhanced with 1900-1906 U.S. patent records

NEWS 17 MAY 11 KOREAPAT updates resume

NEWS 18 MAY 19 Derwent World Patents Index to be reloaded and enhanced

NEWS 19 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAplus and USPATFULL/USPAT2

NEWS 20 MAY 30 The F-Term thesaurus is now available in CA/CAplus

NEWS 21 JUN 02 The first reclassification of IPC codes now complete in INPADOC

NEWS EXPRESS

FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT http://download.cas.org/express/v8.0-Discover/

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS LOGIN Welcome Banner and News Items

NEWS IPC8 For general information regarding STN implementation of IPC 8 X.25 communication option no longer available after June 2006

Enter NEWS followed by the item number or name to see news on that specific topic.

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=>

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Switching to the Registry File...

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 13 JUN 2006 HIGHEST RN 887650-39-7 DICTIONARY FILE UPDATES: 13 JUN 2006 HIGHEST RN 887650-39-7

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********************** The CA roles and document type information have been removed from the IDE default display format and the ED field has been added, effective March 20, 2005. A new display format, IDERL, is now available and contains the CA role and document type information.

Structure search iteration limits have been increased. See HELP SLIMITS for details.

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http://www.cas.org/ONLINE/UG/regprops.html

=>

chain nodes : 8 9 10 11 12 13 14 15 16 17 ring nodes : 3 4 chain bonds : 1-15 1-16 2-13 3-14 4-19 4-20 5-7 6-12 7-8 7-11 8-9 8-10 16-17 16-18 ring bonds : 3-4 4-5 5-6 1-2 1-6 2-3 exact/norm bonds : 1-2 1-6 1-16 2-3 3-4 4-5 5-6 7-8 7-11 exact bonds : 1-15 2-13 3-14 4-19 4-20 5-7 6-12 8-9 8-10

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS

L1STRUCTURE UPLOADED

=> s 11

SAMPLE SEARCH INITIATED 12:44:32 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 5232 TO ITERATE

2000 ITERATIONS 38.2% PROCESSED INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

100303 TO 108977

PROJECTED ANSWERS:

0 TO

L2

0 SEA SSS SAM L1

=> s 11 full

FULL SEARCH INITIATED 12:44:53 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 104298 TO ITERATE

100.0% PROCESSED 104298 ITERATIONS SEARCH TIME: 00.00.01

0 ANSWERS

0 ANSWERS

0 SEA SSS FUL L1 L3

=> hold

HOLD IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system. For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

=>

Executing the logoff script...

=> LOG H

COST IN U.S. DOLLARS

SINCE FILE TOTAL

SESSION 167.59 ENTRY

FULL ESTIMATED COST

167.38

SESSION WILL BE HELD FOR 60 MINUTES STN INTERNATIONAL SESSION SUSPENDED AT 12:45:27 ON 14 JUN 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: SSSPTA1642BJF

PASSWORD:

* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * SESSION RESUMED IN FILE 'REGISTRY' AT 12:49:21 ON 14 JUN 2006 FILE 'REGISTRY' ENTERED AT 12:49:21 ON 14 JUN 2006 COPYRIGHT (C) 2006 American Chemical Society (ACS)